(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 8 April 2004 (08.04.2004)

(10) International Publication Number WO 2004/029143 A1

(51) International Patent Classification7:

901-903 Sindonga Apt., Hogye-dong, Dongan-gu,

(21) International Application Number:

PCT/KR2003/001864

C08K 5/5357

(22) International Filing Date:

15 September 2003 (15.09.2003)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2002-0058147

25 September 2002 (25.09.2002)

(71) Applicant (for all designated States except US): CHEIL INDUSTRIES INC. [KR/KR]; 290 Gongdan-dong, Gumi-si, Gyeongsangbuk-do 730-710 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HONG, Sang Hyun [KR/KR]; 857-704 Seorak Apt., Suri-dong, Gunpo-si, Gyeonggi-do 435-753 (KR). YANG, Jae Ho [KR/KR]; 981-1205 Bakdu Apt., 1119 Sanbon-dong, Euiwang-si, Gyeonggi-do 435-040 (KR). RYU, Young Sik [KR/KR];

Anyang-si, Gyeonggi-do 431-080 (KR). (74) Agent: CHOI, Duk Kyu; 5th Floor, Chunwoo Bldg., 736

Yoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLAMEPROOF STYRENIC RESIN COMPOSITION

(57) Abstract: The flameproof styrenic resin composition according to the present invention comprises (A) about 70 to 99.5 parts by weight of a rubber-modified polystyrene resin and (B) about 0.5 to 20 parts by weight of a ring-shaped alkyl phosphonic acid compound represented by the following formula: wherein R₁ and R₂ are independently of each other C₁-C₄ alkyl and x is 0 or 1.

WO 2004/029143 A1